



County of San Diego, Planning & Development Services
**SAN DIEGO (COUNTY) AREA CIRCUIT
CARD AND LOAD SUMMARY**
BUILDING DIVISION

(1999 NEC) PLANNING & DEVELOPMENT SERVICES – BUILDING DIVISION

THIS CARD MUST BE FILLED OUT AND AVAILABLE AT THE SERVICE EQUIPMENT FOR THE ROUGH INSPECTION

| Address: | | | | | | | | Permit Number: | | | | | | | |
|---------------------------|-----|-------------|-------------------|--------|------|-----|-----|--------------------------------|-----|------|-------------------|--|-------------|-----|----------|
| Owner: | | | | Phone: | | | | Census Tract Number: | | | | | | | |
| Contractor: | | | | Phone: | | | | Area in Sq. Ft. | | | | | | | |
| PANEL: _____ A.I.C. _____ | | | | | | | | VOLTS _____ Ø _____ WIRE _____ | | | | | | | |
| LOCATION | CKT | BKR SIZE | WIRE SIZE TYPE | | MISC | LTG | REC | REC | LTG | MISC | WIRE SIZE TYPE | | BKR SIZE | CKT | LOCATION |
| | 1 | | | | | | | | | | | | | 2 | |
| | 3 | | | | | | | | | | | | | 4 | |
| | 5 | | | | | | | | | | | | | 6 | |
| | 7 | | | | | | | | | | | | | 8 | |
| | 9 | | | | | | | | | | | | | 10 | |
| | 11 | | | | | | | | | | | | | 12 | |
| | 13 | | | | | | | | | | | | | 14 | |
| | 15 | | | | | | | | | | | | | 16 | |
| | 17 | | | | | | | | | | | | | 18 | |
| | 19 | | | | | | | | | | | | | 20 | |
| | 21 | | | | | | | | | | | | | 22 | |
| | 23 | | | | | | | | | | | | | 24 | |
| | 25 | | | | | | | | | | | | | 26 | |
| | 27 | | | | | | | | | | | | | 28 | |
| | 29 | | | | | | | | | | | | | 30 | |
| | 31 | | | | | | | | | | | | | 32 | |
| | 33 | | | | | | | | | | | | | 34 | |
| | 35 | | | | | | | | | | | | | 36 | |
| | 37 | | | | | | | | | | | | | 38 | |
| | 39 | | | | | | | | | | | | | 40 | |
| | 41 | | | | | | | | | | | | | 42 | |

MAIN: ☐ _____ AMP BRK/FUSE ☐ MLO
BUS: _____ AMP
Service entrance or feeder conductors:
A) Size: No. _____ B) Type: ☐ CU ☐ AL
C) Insulation: _____ D) Conduit Size: _____
Service ground/bond:
A) Size: No. _____ B) Type: ☐ CU ☐ AL
C) Clamp location(s):
☐ UFER 250 – 50(c)
☐ Water Pipe 250 – 104
☐ Ground Rod 250 – 52
☐ _____
GFCI locations 210 – 8, 680 – 70:
☐ Bathroom(s) ☐ Kitchen
☐ Garage(s) ☐ Hydromassage Tub
☐ Outdoors ☐ _____
AFCI Protected Circ. 210 – 12
☐ Bedroom(s)

Computed Load _____ AMPS
See Calculation Worksheet on back
Branch circuits required:
A) Lighting Circuits 220 – 3(b), 4(d)
B) Two Small Appliance Circuits 210 – 11(e)
C) Laundry Circuit 220 – 16(b)
D) Central Heating Equipment 422 – 12
E) Bathroom 210 - 52(d)
Remarks: _____

I certify that all terminations have been torqued in accordance with manufacturer's instructions and that the work shown on this circuit card represents the full extent of the work performed under this permit.
☐ Owner _____
☐ Contractor _____
Signed _____ Date _____

**SINGLE FAMILY DWELLING
ELECTRICAL SERVICE LOAD CALCULATION**

OPTIONAL METHOD NEC 220-30

*As an alternative method, the STANDARD METHOD
found in ARTICLE 220 of the National Electric Code, may be used*

1. GENERAL LIGHTING LOADS

Dwelling _____ sq. ft. x 3 VA = 220-3(a) _____ VA

Small appliance loads – 220-16(a) 1500 VA x _____ circuits = _____ VA

Laundry load – 220-16(b) 1500 VA x _____ circuits = _____ VA

General Lighting Total _____ VA

2. COOKING EQUIPMENT LOADS – Nameplate Value

Range _____ VA = _____ VA

Cooktop _____ VA = _____ VA

Oven (s) _____ VA = _____ VA

Cooking Equipment Total _____ VA

3. ELECTRIC DRYER 220-18 (Nameplate, 5000 VA minimum)

Dryer _____ VA = _____

Dryer Total _____ VA

4. FIXED APPLIANCE LOADS 230-30 (b) (3)

Dishwasher = _____ VA

Disposal = _____ VA

Compactor = _____ VA

Water Heater = _____ VA

Hydromassage Bathtub = _____ VA

Microwave Oven = _____ VA

Built-in Vacuum = _____ VA

_____ = _____ VA

Fixed Appliance Total _____ VA

5. OPTIONAL SUBTOTAL (Add all of the above totals)

_____ VA

6. APPLYING DEMAND FACTORS – TABLE 220-30

First 10,000 VA x 100% = 10,000 VA

Optional Subtotal (from line 5) { Remaining _____ VA x 40% = _____ VA

7. HEATING OR AC LOAD – TABLE 220-30

Larger of the Heating or AC Load = _____ VA

8. OPTIONAL LOADS TOTAL (Add totals from lines 6 and 7) =

_____ VA

**9. MINIMUM SERVICE SIZE = Optional Loads Total =
240 Volt**

_____ Ampere

(Please put total on front of card under Computed Load)